

Serial No. 09/942,855

10-15-07

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: :
ANNOP MAGNESS :
Serial No.: 09/942,855 :
Filed: August 29, 2001 :
For: COMBINATION LIFTING, :
PLATFORM, HAND TRUCK, :
SCAFFOLD, FLOOR JACK :
AND MECHANICAL CREEPER :

Examiner: AVERY,
BRIDGET D
: Group
Art Unit: 3618

Commissioner of Patents and Trademarks
Washington, DC 20231

Dear Sir:

In response to the patent office action date july 15, 2003 please amend this application, as follows

Amend the title to read:

--MULTIUSE LIFTING AND ROLLING PLATFORM

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3. A multiuse platform comprising: a wheeled support assembly having a lower crossbar, a first pair of scissor legs connected to said lower crossbar;

a platform frame assembly positioned above said wheeled support assembly, said platform frame assembly having a pivoted end, a second pair of scissor legs mounted to said pivoted end, said platform frame assembly lying on top of a upper cross bar of said first and second pair of scissor legs

and being pivoted together, intermediate their ends, so that said platform frame assembly is movable upwardly and downwardly in relation to said wheeled support assembly;

lift structure connected to said lower cross bar on said wheeled assembly and to said upper cross bar for lifting said platform frame assembly with respect to said wheeled assembly, said lift structure comprising an upper arm and a lower arm, said upper arm being pivotally connected to said upper cross bar and said lower arm being pivoted to said lower cross bar, said upper and lower arms being pivoted together;

a lift drive structure connected to said lift structure for raising said platform frame assembly to a desired elevation, said lift drive structure being selected from a group consisting of: a screw thread jack, a telescoping support, a hydraulic cylinder, a hydraulic actuator and a screw actuator;

an extensible structure different from said lift structure having a first end pivotally mounted to said rear end of platform frame and said second end pivotally mounted into said a selected one of said upper cross bar and to said lower cross bar;

a platform having first and second ends and having said first end connected to said extensible structure and said second end pivotally attached to said platform frame

assembly to permit angular raising of said first end of said platform with respect to said platform frame assembly, said platform having a locking assembly thereon, said locking assembly releasibly locking said platform to said platform frame assembly:

said platform frame assembly having one end connected to a support plate locking assembly thereon, said locking assembly releasibly engaging said support plate to permit releasible locking of said support plate to said platform frame assembly;

said support plate locking structure being different from said platform frame locking structure and being pivotally connected to a first and second rear end of said support plate.

said platform having a platform frame assembly , and lower cross bar brackets first pair scissors legs mounted in an easily detachable manner, by an attached, pusher wheel, at lease one pocket, self locking and support plate channel locking structure , used to permit and detachable to perform a scaffold, a work bucket, a floor jack and a mechanical creeper.

4. The multiuse platform of 3 wherein said platform frame assembly can be simultaneously vertically and angularly raised.

5. The multiuse platform of 3 wherein said lift structure includes only a single lift drive structure which is pivotally connected to said upper and lower arms so that said upper and lower arms can be folded together for compact storage.

6. The multiuse platform of 3 wherein said upper and lower lift arms are pivotally coupled together at one end and the other end of said upper lift arm is pivotally connected to said upper cross bar by a ball joint assembly and said lower lift arm is pivotally connect to said lower cross bar with a ball joint assembly.

7. the multiuse platform of 3 wherein said support plate locking assembly includes, bolt, spring, lock, support plate channel.

8 . The multiuse platform of 7 wherein said there is a support plate attachment structure on the pivoted end of said platform frame, to lock said support plate in a position at an angle to said platform frame when said support plate is in a hand truck usage position.

9. The multiuse platform of 7 wherein said support plate locking structure includes spring, stop, slot

and rod holder attached to between first and second end of said support plate so that said support plate pivotally mounted on said platform frame so that it can swing from a position where it lies on top of said platform frame locking structure to a position where it hangs down from the end of said platform frame structure, and there is rods between said support plate and said platform frame which locks said support plate with respect to said platform frame at selected angular positions so that said platform frame to comprise a retractable support plate approach ramp system for joining said platform to an adjacent loading surface.

10. The multiuse platform of 7 wherein said a spring can be compressed to release said support plate lock to release said support plate from said platform frame lock structure.

11. the multiuse platform of 3 wherein said support plate safety lock is pivotally mounted to said adjacent loading surface rear end.

12. The multiuse platform of 3 wherein said extensible structure comprises first and second members telescopically interengaged and movable into a selected one of a plurality of total length positions and releasably lockable into a selected one of a plurality of positions.

13. The multiuse platform of 12 wherein said platform frame cross bar bracket provides a selected position of a plurality of positions, for selected platform frame angular.

14. The multiuse platform of 12 wherein said extensible structure has its upper end pivotally mounted onto said platform frame cross bar and the lower end pivotally connected to said lower cross bar so that said platform can be raised to angular lift table position and lowered to tilt back hand truck position.

15. The multiuse platform of 12 wherein said extensible structure is removable from said upper and lower cross bars and said extensible structure is releasably lockable into a selected one of a plurality of positions for selected platform rotation.

16. The multiuse platform of 11 wherein there is extensible structure connected to said upper cross bar and engaging to said platform frame, said platform is in tilted back hand truck position, said support plate is locked by said safety lock to said adjacent loading surface and when said platform is lower, said platform is folded by pivoting about

the top ends of said first pair scissor legs for selective use to perform raising load and the platform it' self to said adjacent loading surface.

17. The multiuse platform of 12 wherein said extensible structure is pivotally attached to said upper cross bar by means of a removable stop pin through a bracket hole in said upper cross bar so that said extensible structure can support said upper cross bar or rotate to folded position below said platform for use as a hand truck .

19. the multiuse platform of 3 wherein said there is a first and second pair of extend and reinforce legs structure associated with the lower end of each of said first and second pair of scissor legs so that said extend and reinforce legs respectively on said first and second pairs of scissor legs can be moved away from said pivots between said scissor legs.

22. The multiuse platform of 3 further including lock structure on said first and second pair of scissor legs so that said first and second pair of extend and reinforce legs can be releasably lockable to first and second pair of scissor legs.

23. The multiuse platform of 3 wherein said extend and reinforce legs structure can be extended included extend and reinforce legs structure comprises wheels cross bar assembly and cross bar support assembly at lease some of said floor engaging structure.

26. the multiuse platform of 3 wherein said pusher wheel is pivotally detachable to said lower cross bar bracket when said platform and said support plate in lower to the floor level provided force to sliding said support plate below load.

28. The multiuse platform of 3 wherein said stepladder and scaffold include a removable rail attached into a support pocket in said platform to act as an anti-falling device.

29. The multiuse platform of 28 wherein said stepladder include a removable stepladder attached to said pocket in said platform and a support plate channel in said platform for selective use for performing work at a high elevation raising a load.

30. The multiuse platform of 29 wherein said platform and said scaffold can be utilized for high elevation tilting

35. The multiuse platform of 3 wherein said tilt back hand truck is configured to pick up load and unload while operating from the ground by stepping on the cross bar.

36. the multiuse platform of 3 wherein said reinforced legs can be inserted into scissor legs to shift the center gravity of the load to prevent the platform roll over and tilting.

37. The multiuse platform of 3 wherein said scissor legs are tubular and said first pair and second pair of scissor legs pivoted together outside of the tube of said tubular legs on pivot pins so that said extend and reinforce legs can be slideable into of said tubular legs for reinforcing said tubular legs.

38. The multiuse platform of 3 wherein there are first and second pair of reinforce legs structure associated with the lower end of each of said first and second pair of scissor legs so that said extend and reinforce legs and cross bar respectively on said first and second pairs of scissor legs can be removed for reduced weight when portable used.

39. the multiuse platform of 3 wherein said extend and reinforce legs are releasably lockable to the wheels cross bar assembly and cross bar assembly.

40. The multiuse platform of 3 wherein said work bucket is configured to load and unload and for high elevation tilting and dumping.

41. The multiuse platform of 3 wherein said extensible structure has its upper end pivotally mounted onto said platform cross bar and its lower end pivotally connected to said upper cross bar and second pairs of scissor legs so that said mechanic 's creeper can be angularly raised.

42. The multiuse platform of 3 wherein said extensible structure has its upper end pivotally mounted on the platform cross bar and into lower end pivotally mounted on the upper cross bar and second pairs of scissor legs so that said floor jack can be configured to load parts at on angle aligned by raising said platform.

43. The multiuse platform of 3 wherein said support plate safety lock structure is selected from a group consisting of a foot control lock, a remote control, a vise

Serial No. 09/942,855

grip lock, a wire pulling lock and automatic self locking alike.

45. The multiuse platform of 3 wherein all combination can operate with load on while converting to any other of said combinations.



Respectfully submitted,

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